

# NNABUKO, MIRACLE CHIDINMA.

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## CORE COMPETENCIES

- HTML, CSS, Python, and AVR C/C++
- JavaScript
- Web development using Django
- Embedded Systems
- Application Monitoring (Dynatrace)
- Microsoft Azure
- SQL
- Linux
- Networking Configuration and Maintenance
- Systems Administration
- Git

## EDUCATION

**B. Eng in Electrical/ Electronic Engineering (Second Class Upper Division)** **2013 - 2018**  
Federal University of Technology, Owerri – Nigeria.

## RESEARCH EXPERIENCE

**Electrical and Electronics Engineering Lab, Federal University of Technology, Owerri.** **2018 -2019**

Bachelor's Thesis Project

Department of Electrical/ Electronic Engineering, Federal University of Technology Owerri, Nigeria

**Topic:** Design and implementation of an embedded poultry farm

- Designed an Automatic Light Switching System
- Implemented a Climate Control System (Temperature and Humidity Control)
- Designed a Water Supply Control system
- Developed an algorithm to automatically regulate and maintain an optimum condition for broiler chicks using sensors
- Programed an Arduino microcontroller using AVR C/C++
- Real-Time Monitoring Using Liquid Crystal Display (LCD)
- Simulated the system using Proteus 8 simulation software
- Prepared proper documentation on the research procedures and published the research paper

**Result:**

- Successfully designed and tested an embedded Arduino-based Poultry Farm
- The climatic condition within the poultry farm based on temperature and humidity was adequately controlled and maintained within the range conducive for the chicks.

## OTHER PROJECTS

**Email Scheduling Application**(<https://mailschedulerbot.herokuapp.com>)

- Developed an email scheduling application using Django
- Used Celery and Redis to handle and execute the scheduled email tasks

**Event Registration Form** (<https://dynaeventregform.herokuapp.com>)

- Developed an event registration form where users can register for an event using Django
- Generated a confirmation email with a unique event ID

## PUBLICATION

**Conference paper**

L. Ezema, M. Nnabuko, C. Ben-Okpara, and H. Orah, “Design and implementation of an embedded poultry farm,” IEEE 1st International Conference on Mechatronics, Automation and Cyber-Physical Computer Systems, 2019.

(PDF) [Design and Implementation of an Embedded Poultry Farm \(researchgate.net\)](#)

## COMMUNITY INVOLVEMENT

**Prime Africans Network, Abuja Nigeria** **2016 - Present**

Training Facilitator

- Organize career and leadership training for youths
- Coordinate community development projects

**Nigeria Christian Corpers' Fellowship**

Rural Rugged Outreach Participant

- Distributed clothing and food items to the rural community at Ibeju-Lekki
- Assisted in the counseling session

## ADDITIONAL WORK EXPERIENCE

**Nathan Claire Africa, Lagos**

**Technical Consultant**

**2020-2022**

**Responsibilities:** • Project implementation and support for the Dynatrace software intelligence platform in West and East Africa.

**• Key Accomplishment:**

- Setup and configured Dynatrace APM for clients, Trained clients on how to use the Dynatrace monitoring tool
- Pioneered the Migration of an environment using Dynatrace Monitoring as Code (Monaco) for First City Monument Bank.
- Developed Plugins with Python, Installed the plugins, and provided technical support for clients.
- Developed and monitored Django web applications on Dynatrace and Datadog monitoring solutions

- Integrated Dynatrace with 3rd party applications in the bank’s system such as ITSM and BI tools (PowerBI, ServiceNow, Jira).
- Carried out Dynatrace Integrations with Cloud Platforms (Azure, AWS, GCP)
- Configured and setup Alteon LB Snmp extension for Safaricom
- Facilitated training sessions for clients in East and West Africa.
- Analyzed customer data using USQL, utilizing visualization and exploratory data analysis to understand customer data co-relative behaviors.
- **Program Management:** Conduct formal reviews, walk-throughs, and informal reviews on business and technical requirements.

**Relational Experience:**

- Supervised two Technical Consultants in the West African Support team of the organization.
- Team management and project prioritization to meet Service Level Agreement
- Collaborated with various team members to carry out various training sessions for the sales team

Sidmach Technologies Nigeria Limited, Lagos

2019 - 2020

Graduate Intern (NYSC)

**Responsibilities:** Support and maintenance of IT systems, including LAN, WAN, and related systems. In-house IT equipment and network support.

- **Key Accomplishment:**
  - Configured and maintained network hardware and software, provided beneficial network advice and support to end-users, and tested installed systems
  - Talked staff or clients through a series of actions, either face-to-face or over the phone, to help set up systems or resolve issues
  - Troubleshoot system and network problems, diagnosed and solved hardware or software faults
  - Carried out software/hardware evaluations and technical analysis to meet the company’s IT goals
  - Deployed new software releases, system upgrades, evaluation, and installation patches, and resolved software-related issues

Sidmach Technologies Nigeria Limited, Lagos

2017 - 2018

Student Intern (IT)

**Responsibilities:** Support, configure and maintain network hardware and software, provided beneficial network advice and support to end-users.

- **Key Accomplishment:**
  - Troubleshoot system and network problems, diagnosed and solved hardware or software faults
  - Assisted in the network maintenance department to set up a wireless LAN for Lagos Water Corporation
  - Configured and tested computer software and products such as Smartpen
  - Installed advanced operating system software on servers and workstations

Aneez Technical and Electronic. Co. Ltd, Abia

2015- 2016

Student Intern

- Assisted in sales and technical operations
- Participated in installations and troubleshooting of electronic devices
- Constructed circuits (doorbell and power supply circuits).

**SKILL HIGHLIGHTS**

- Critical Reasoning and Analysis
- Strategic Planning and Organizing Skills
- Good Problem solving and Debugging Skills
- Effective Teamwork and Collaboration Skills
- Excellent Communication and Relationship Skills
- Attention to detail and High Teachability Index

**Tools:**

Arduino, Raspberry Pi, Proteus, Visual Studio Code, Git, Jupyter Notebook, Pycharm

**AWARDS AND CERTIFICATIONS**

- |  |      |
|--|------|
| • JavaScript Programming Foundations (Udacity)   | 2022 |
| • AWS Certified Cloud Practitioner   | 2022 |
| • ALX-T Cloud Developer (Udacity)  | 2022 |
| • Microsoft Azure Administrator  | 2021 |
| • Dynatrace Associate  | 2020 |
| • Graduate Member, The Nigerian Society of Engineers   | 2020 |
| • Python for Data Science: Intermediate (Dataquest.io)   | 2019 |
| • Award of Distinction, Christ Ambassadors Students’ Outreach  | 2018 |
| • Ambassador, Prime Africans Network   | 2018 |
| • Certificate of Participation. (Capacity Development Training Workshop on Solar PV Installation). FUTO Consult Ltd. | 2018 |
| • Agbami Medical and Engineering Scholarship Award   | 2014 |
| • Total (E&P) National Merit Scholarship Award   | 2014 |

**REFEREES**

Available on request